DURANILE FLOGUARD EP 250

Solvent Free High Performance Epoxy Two-Component Floor Coating

Product Description:

DuraNile Floguard EP 250 is a high-performance, two-component epoxy floor coating designed for use as a durable and protective topcoat on concrete and industrial floors. This product offers exceptional resistance to abrasion, chemicals, and impact, providing a long-lasting, colored glossy finish. Ideal for high-traffic areas requiring easy maintenance and durability, **DuraNile Floguard EP 250** is engineered for seamless, robust flooring solutions in industrial and commercial environments.

Features & Benefits:

High Durability: Excellent abrasion, chemical, and impact resistance.
Solvent free : Offers superior coverage and long-lasting protection.
Versatile Application: Suitable for a wide range of floor surfaces in industrial, commercial, and high-traffic areas.

Uses :

Industrial Facilities: Warehouses, factories, and production areas requiring high abrasion and chemical resistance.
Commercial Spaces: Retail stores, showrooms, and offices seeking a glossy, easy-to-clean surface.
Parking Garages: Interior levels and ramps where mechanical wear, oil, and salt resistance are critical.
Food & Beverage Processing Areas: Environments requiring hygienic, seamless, and stain-resistant surfaces (in compliance with local regulations).
Pharmaceutical and Laboratories: Clean rooms and labs demanding chemical resistance and cleanliness.
Institutional Buildings: Schools, hospitals, and public buildings requiring long-lasting performance with minimal maintenance.
Aircraft Hangars: Surfaces exposed to fuels, oils, and other aviation chemicals

Instructions for use :

1) Surface Preparation:

- Ensure the substrate (concrete or floor surface) is clean, dry, and free from any oils, grease, or contaminants.
- The fresh concrete must be at least 28 days old and the moisture content not more than 5 %.
- Surface should be prepared by light sanding or shot blasting for optimal adhesion.
- If applying over existing coatings, ensure they are well-bonded and free of any dust or loose material.

2) Application Method:

- **Priming** : use **DuraNile Floguard EPR 100** as a primer or **DuraNile Floguard EPR 50** . You can use **DuraNile Floguard EP 250** as a primer with 10% dilution.
- **Mixing**: mix Resin part separately before add the cure part. Add the Cure part while the mixer is working and stir with mechanical stirrer thoroughly for 3 minutes until uniform.
- **Application Tools**: Apply using a brush, roller, or airless spray system. A roller or squeegee is recommended for large surface areas.
- **Number of Coats**: Apply 2 coats for optimal performance, allowing sufficient drying time between coats.
- **Drying Time:**
  Surface Dry: 6 hours at 25°C.
  Over coat : 24 hours
  Full Cure: Approximately 7 days depending on temperature and humidity.

Temperature: Ideal application temperature is between 10°C - 30°C.

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Technical specifications :

Color	According to RAL
Appearance	Gloss finish
Solid content	100 %
Density	1.65 g/cm³
Theoretical Coverage	2.5 m² / Kg / coat 250 micron
Curing Time	Surface Dry : 8 hours Time to Light traffic : 24 hours Recoating time : 24 hours Full cure : 7 days
Pot Life	40 minutes at 25°C

Packing:

Available in 5 kg and 20 kg kits (Resin + Cure).

Storage and shelf life :

- 12 months in original tightly closed containers away from direct sunlight and excessive heat

Disclaimer:

The above information is provided to the best of our knowledge. The user must conduct their own tests and trials before full application. The company assumes no responsibility for the misuse or misapplication of the product.

Precautions :

To ensure optimal performance and safety during the application of the epoxy top coat, the following precautions must be observed:

Surface Preparation:
Ensure the substrate is clean, dry, sound, and free from dust, oil, grease, laitance, and other contaminants. Moisture content must be below the manufacturer's recommended limits.

Mixing:
Mix the resin and hardener components thoroughly and in the correct ratio as specified. Inadequate mixing can result in poor curing and reduced performance.

Environmental Conditions:
Apply only when ambient and substrate temperatures are within the specified range (typically between 10°C and 35°C), and relative humidity is below 85%. Avoid application when condensation is present or may occur before curing.

Ventilation:
Ensure adequate ventilation during application and curing, especially in enclosed areas, to avoid accumulation of solvent vapors and to facilitate proper drying and hardening.

Application Tools:
Use clean, appropriate tools such as rollers, squeegees, or spray equipment. Contaminated or worn tools can affect finish quality and coverage rate.

Pot Life & Working Time:
Monitor pot life closely. Do not apply the material after it has begun to thicken or gel, as this can compromise adhesion and finish.

Overcoating Time:
Follow recommended recoat windows strictly. Applying subsequent coats too early or too late can lead to adhesion failures.

Personal Protection:
Wear appropriate personal protective equipment (PPE), including gloves, goggles, and respiratory protection when necessary. Refer to the Safety Data Sheet (SDS) for full safety guidelines.

Disposal:
Dispose of unused material, packaging, and contaminated tools in accordance with local regulations. Do not pour excess material into drains or waterways.

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